

432-1524

04/11/2013

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

APR 11 2013

Norma C. Pangilinan, Ph.D.  
Bayer CropScience  
P. O. Box 12014  
2 TW Alexander Drive  
Research Triangle Park, NC27709

Re: Nortica 10 WP  
EPA Registration No. 432-1524  
Minor Label ("Fast Track") Amendment  
Application Dated 09/27/2012 – Revised Label submitted February 18, 2013

Dear Dr. Pangilinan:

The Agency has reviewed your request to amend the subject product registration which included the following changes to the product label:

- 1) Adding the signal word below the Hazards to Humans and Domestic Animals subheading;
- 2) Adding directions for cool season turf.
- 3) Including First Aid statements as required by California.

The changes referred to above, submitted in connection with registration under the Federal Insecticide Fungicide Rodenticide Act (FIFRA) section 3(c)(5), are acceptable, provided that you:

- 1) Submit and/or cite all data required for registration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
- 2) Submit two (2) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of a final printed label.

Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions. If you have any questions, please contact Shanaz Bacchus by email at [bacchus.shanaz@epa.gov](mailto:bacchus.shanaz@epa.gov) or by phone on 703-308-8097.

A stamped copy of the label is enclosed for your records.

Sincerely,

A handwritten signature in black ink, appearing to read "Kimberly Nesci", is written over the word "Sincerely,".

Kimberly Nesci, Chief  
Microbial Pesticides Branch  
Biopesticides and Pollution Prevention Division (7511P)

Enclosure: A79 enclosure, stamped label.

ACCEPTED

APR 11 2013

Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended, for  
the pesticide registered under  
EPA Reg. No. 432-1524

## NORTICA® 10 WP

A Biological Agent for the Protection of Plant Roots Against Plant Parasitic Nematodes on Turf,  
Residential and Commercial Lawns, Sod Farms, Sports Fields and Golf Courses (Greens, Tees, Fairways  
and Roughs)

|  |      |
|--|------|
| Active Ingredient:                           |      |
| <i>Bacillus firmus</i> (strain I-1582)*..... | 10%  |
| Other Ingredients:.....                      | 90%  |
| Total.....                                   | 100% |

\* Contains a minimum of  $6 \times 10^9$  cfu/gram

Reg. No. 432-1524

EPA Est. No

Fertilizer Analysis 14-0-21

## KEEP OUT OF REACH OF CHILDREN CAUTION

For MEDICAL and TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577  
For PRODUCT USE Information Call 1-800-331-2867

| FIRST AID   |  |
|---|--|
| If in eyes  | <ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul> |
| If on skin or clothing  | <ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>  |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-334-7577 for emergency medical treatment. |  |

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

##### CAUTION

Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- long-sleeved shirt and long pants
- waterproof gloves
- shoes plus socks
- dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ACCEPTED

**Engineering Controls**

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**IMPORTANT:** When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

**Environmental Hazards**

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash waters or rinsate.

**IMPORTANT:** Read the entire label before using this product.

**Production Date:** \_\_\_\_\_

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

**Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry intervals (REI). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, is:

- Coveralls
- Waterproof gloves
- Shoes plus socks
- Dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95

**Non-Agricultural Use Requirements**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep unprotected persons out of treated areas until sprays have dried.

## GENERAL INFORMATION

NORTICA® 10 WP suppresses nematode populations through the activity of *Bacillus firmus*. With this biological protection, a vigorous root system is established by the plant.

NORTICA 10 WP is suitable for application by spraying, drenching, or drip irrigation. Optimal results are obtained by preplant application (2-7 days before planting).

Applying NORTICA 10 WP during periods of root growth will cause a reduction in nematode populations in the soil. NORTICA 10 WP does not control other pests or pathogens. Control of other soil-borne pathogens by other means (such as soil fumigants) is highly recommended.

## RESTRICTIONS

- Do not apply within two weeks of a fumigant application.
- Do not combine NORTICA 10 WP in the spray tank with pesticides, adjuvants, or fertilizers if there has been no previous experience or use of the combination to show it is physically compatible, effective, and non-injurious under your use conditions.
- Do not add products which lower the spray tank acidity below pH 5.

## COMPATABILITY

NORTICA 10 WP is physically compatible with many commonly used pesticides, fertilizers, and adjuvants. To ensure compatibility of tank-mix combinations they should be evaluated prior to use, as follows: Using a suitable container add proportional amounts of NORTICA 10 WP to water, then add wettable powders, followed by water dispersible granules, liquid flowables, and then emulsifiable concentrates. Mix thoroughly and let stand for at least five minutes. If the combination stays mixed or can be remixed, it is physically compatible.

Test the combination on a small portion of the target to be treated to ensure that a phytotoxic response will not occur within 48 hours. Observe the most restrictive of the labeling limitations and precautions of all products used in mixtures.

NORTICA 10 WP has been evaluated for phytotoxicity on a range of turfgrasses and no lasting phytotoxicity has been observed. The professional user should determine if NORTICA 10 WP can be used without phytotoxicity prior to commercial use. After application of NORTICA 10 WP always irrigate to remove the product from foliage and to ensure it reaches the soil.

## APPLICATION INSTRUCTIONS

### Spray applications

Apply NORTICA 10 WP through any standard spray nozzles. Do not exceed the prescribed rate.

NORTICA 10 WP may be applied to turf by foliar spray. Apply a spray solution of the prescribed rate of NORTICA 10 WP with a water volume rate between 1.5 and 3 gallons per 1000 sq ft (65 to 130 gallons of water per acre). Agitate the solution until the product is completely suspended and apply directly to the soil or turf.

[For an optimum turf response to treatment, sequentially apply urea fertilizer at a dose of 15 lb of urea per acre (0.34 lb per 1000 sq ft), equivalent to 6.9 lb of nitrogen per acre (0.16 lb of nitrogen per 1000 sq ft).]

**New Turf Grow-Ins:** For optimal results, make the first application 2 to 7 days prior to seeding, sprigging, and laying sod. Maintain soil moisture until seeds, sprigs, or sods are established.

**Warm Season Turf:** For optimal results, make the initial application in late winter or early spring, prior to the first new flush of roots. Apply when soil temperatures have reached 60°F or above for three consecutive days. Applications can be made in the fall prior to dormancy or discontinued during a slow period for root growth. Maintain adequate soil moisture for root growth.

**Cool Season Turf:** For optimal results, make the initial application in the spring as the new flush of roots occurs, and repeat for subsequent new root growth resulting from turf management practices, such as aerification or top dressing. Apply the product in the fall during the period of recovery from summer stress. Maintain adequate soil moisture for root growth.

| Pests Controlled   | Nortica 10 WP<br>Rate                                   |
|--|---|
| Soil-living parasitic nematodes, e.g. Cyst, Lance, Lesion Ring (free-living), Root-knot, Sheath, Spiral, Sting, or Stunt   | 35-50 lb/acre<br>0.80 – 1.15 lb (13 - 18 oz)/1000 sq ft |
| After each application of NORTICA 10 WP [and urea], irrigate to wash product from foliage and to ensure it reaches the soil, and subsequently continue to irrigate to a depth of 4 inches as management practice allows. |   |

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in cool, dry conditions in original container only out of reach of children.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container.

Completely empty bag into application equipment. Then offer for recycling, if available, or dispose of empty bag in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Bayer CropScience. To the extent allowed by law, all such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Bayer CropScience is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

**LIMITATIONS OF LIABILITY:** TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT BAYER CROPSCIENCE'S ELECTION, THE REPLACEMENT OF PRODUCT.

**Net Contents:** 35 lb (15.9 Kg)

**Produced For**



**Bayer Environmental Science**

A Division of Bayer CropScience LP  
2 T. W. Alexander Drive  
Research Triangle Park, NC 27709

NORTICA 10 WP (PENDING) 09/10/12, 02/15/2013

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**[For placement under Fertilizer Guarantee Section]**

35 lb per acre of NORTICA 10 WP delivers 0.10 lb of Nitrogen per 1000 square feet

**Nortica 10 WP Guaranteed Analysis 14-0-21**

Total Nitrogen (N).....14.0%  
 14% Ammoniacal Nitrogen  
 Soluble Potash (K<sub>2</sub>O) .....21%

Derived from: Ammonium Chloride & Potassium Chloride

Net Weight: 35 lb (15.9 Kg)

F1559

Information regarding the contents and levels of metals in this product are available on the Internet at <http://www.regulatory-info-ba.com>.

**FLORIDA APPLICATIONS:** For use on golf courses in FL, we recommend you follow SL191, "Recommendations for N, P, K & Mg for Golf Course and Athletic Field Fertilization Based on Mehlich I Extractant", available on the internet at <http://edis.ifas.ufl.edu/SS404> or "Best Management Practices for the Enhancement of Environmental Quality on Florida Golf Courses" at <http://www.flaes.org/pdf/glfbmp07.pdf>."

**FLORIDA APPLICATIONS:** For commercial application to urban turf or lawns in FL, we recommend you follow the Best Management Practices for Protection of Water Resources in Florida, June 2002, Florida Green Industries, available on the internet at [http://www.flaes.org/pdf/BMP\\_Book\\_final.pdf](http://www.flaes.org/pdf/BMP_Book_final.pdf).